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S6	16	("4947291", "4962687", "6016038", "6577073", "6609804", "6674233", "6683423", "6686691").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 11:44
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S11	2941	362/800,230,231.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 13:27
S12	2048	S11 and "light emitting diode"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 13:21
S13	656	S12 and wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 13:24
S14	362	S13 and multiple	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 13:24
S15	3587	stage light	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/05 13:24
S16	817	S15 and (LED or light emitting diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/05 13:25
S17	459	S16 and wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/05 13:25



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S18	170	362/230.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 15:42
S19	979	362/231.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 13:27
S20	3	("6166496", "6459919").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 14:10
S21	170	362/230.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 15:43
S22	979	362/231.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 15:43
S23	398	(S22 or S21) and wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/05 15:43
S24	3	("5803579"   "5851063"   "6234645").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/05 15:50
S25	232	theatrical adj (lights or light or lighting)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/06 08:46
S26	11	theatrical adj (lights or light or lighting) with (LED or light adj emitting adj diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/06 08:47

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S28	1	(US-4636923-\$.did.	USPAT	OR	ON	2007/03/06 09:17
S29	27	((LED or (light adj emitting adj diode)) with array) with ((theatrical adj (lights or lighting)) or (floodlight or (flood adj light)) or (stage adj light))	USPAT	OR	ON	2007/03/06 13:02
S30	32	base with mix with LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/07 12:52
S31	1	LED with array with (violet and blue and cyan and green and lime and amber and orange and red)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/07 12:54
S32	2044	LED with array with (violet or blue or cyan or green or lime or amber or orange or red)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/07 12:54
S33	1671	LED with array with (violet or indigo or blue or cyan or green or lime or yellow-amber or orange or orange-red or deep adj red)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/07 12:55
S34	1	LED with array with (violet and indigo and blue and cyan and green and lime and yellow-amber and orange and orange-red and deep adj red)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/03/07 12:56

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PLUS Search Results for S/N 10804463 Searched Feb 22, 2007. The Patent Linguistic Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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20070030340	56
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Most frequently occurring classifications of patents returned from a search of 10804463 on Feb 22, 2007

#### Original Classifications

10	362/231
4	356/406
4	315/312
3	313/498
3	345/102
3	358/509
3	257/79
3	356/320
3	362/250
3	362/252
3	315/294
2	362/240
2	349/61
2	345/589
2	345/83
2	257/89
2	356/419
2	356/420
2	438/27
2	353/31
2	353/98
2	455/556.1

#### Cross-Reference Classifications

10	257/E33.061
8	362/800
5	257/E33.028
5	362/227
4	362/231
4	345/82
4	250/226
4	356/320

3 362/240  
3 257/E25.028  
3 345/88  
3 313/504  
3 257/E25.02  
3 356/419  
3 347/19  
3 257/E23.044  
3 257/E33.059  
3 257/E33.066  
3 257/E33.074  
3 257/E33.075  
3 315/297  
2 257/607  
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2 257/E33.005  
2 362/555  
2 356/425  
2 356/319  
2 356/402  
2 362/372  
2 257/E33.012  
2 438/28  
2 315/169.3  
2 315/291  
2 348/E5.029



2 348/E9.01

2 362/251

2 257/80

#### Combined Classifications

14 362/231

10 257/E33.061

8 362/800

7 356/320

6 362/227

5 362/240

5 345/82

5 257/E33.028

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4 313/498

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2 356/425  
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2 356/402  
2 362/372  
2 257/E33.012  
2 358/518  
2 438/27  
2 438/28  
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2 315/307  
2 455/556.1  
2 348/E5.029  
2 348/E9.01  
2 362/251  
2 362/296

Titles of most frequently occurring classifications of patents returned from a search of 10804463 on Feb 22, 2007

- 14 **362/231** (10 OR, 4 XR)  
Class 362 ILLUMINATION  
362/227 .PLURAL LIGHT SOURCES  
362/230 ..Particular wavelength  
362/231 ...Different wavelengths
- 10 **257/E33.061** (0 OR, 10 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
257/E33.055 ..Detail of nonsemiconductor component other than light-emitting semiconductor device (EPO)  
257/E33.06 ...Coatings (EPO)  
257/E33.061 ....Comprising luminescent material (e.g., fluorescent) (EPO)
- 8 **362/800** (0 OR, 8 XR)  
Class 362 ILLUMINATION  
362/800 .LIGHT EMITTING DIODE
- 7 **356/320** (3 OR, 4 XR)  
Class 356 OPTICS: MEASURING AND TESTING  
356/300 .BY DISPERSED LIGHT SPECTROSCOPY  
356/319 ..Utilizing a spectrophotometer (i.e., plural beam)  
356/320 ...Having plural wavelengths
- 6 **362/227** (1 OR, 5 XR)  
Class 362 ILLUMINATION  
362/227 .PLURAL LIGHT SOURCES
- 5 **362/240** (2 OR, 3 XR)  
Class 362 ILLUMINATION  
362/227 .PLURAL LIGHT SOURCES  
362/235 ..With modifier  
362/236 ...Distinct light units  
362/237 ....Substantially identical modifiers  
362/240 .....Units have common housing
- 5 **345/82** (1 OR, 4 XR)  
Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS  
345/30 .PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G., NON-CRT)  
345/55 ..Display elements arranged in matrix (e.g., rows and columns)  
345/82 ...Solid body light emitter (e.g., LED)
- 5 **257/E33.028** (0 OR, 5 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)

- 257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A  
POTENTIAL OR A SURFACE BARRIER, PROCESSES OR  
APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT  
OF SUCH DEVICES, OR OF PARTS THEREOF
- 257/E33.002 ..Device characterized by semiconductor body (EPO)
- 257/E33.013 ...Material of active region (EPO)
- 257/E33.023 ....Comprising only Group III-V compound (EPO)
- 257/E33.026 .....Ternary or quaternary compound (e.g., AlGaAs) (EPO)
- 257/E33.028 .....Including nitride (e.g., AlGaN) (EPO)
- 5 **356/419** (2 OR, 3 XR)  
Class 356 OPTICS: MEASURING AND TESTING
  - 356/402 .BY SHADE OR COLOR
  - 356/416 ..With color transmitting filter
  - 356/419 ...Including multicolor filters
- 5 **315/312** (4 OR, 1 XR)  
Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS
  - 315/312 .PLURAL LOAD DEVICE SYSTEMS
- 4 **313/498** (3 OR, 1 XR)  
Class 313 ELECTRIC LAMP AND DISCHARGE DEVICES
  - 313/483 .WITH LUMINESCENT SOLID OR LIQUID MATERIAL
  - 313/498 ..Solid-state type
- 4 **345/83** (2 OR, 2 XR)  
Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
DISPLAY SYSTEMS
  - 345/30 .PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G.,  
NON-CRT)
  - 345/55 ..Display elements arranged in matrix (e.g., rows and columns)
  - 345/82 ...Solid body light emitter (e.g., LED)
  - 345/83 ....Color
- 4 **250/226** (0 OR, 4 XR)  
Class 250 RADIANT ENERGY
  - 250/200 .PHOTOCELLS; CIRCUITS AND APPARATUS
  - 250/216 ..Optical or pre-photocell system
  - 250/226 ...Color (e.g., filter or spectroscope)
- 4 **257/79** (3 OR, 1 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
SOLID-STATE DIODES)
  - 257/79 .INCOHERENT LIGHT EMITTER STRUCTURE
- 4 **347/19** (1 OR, 3 XR)  
Class 347 INCREMENTAL PRINTING OF SYMBOLIC INFORMATION
  - 347/1 .INK JET
  - 347/5 ..Controller
  - 347/19 ...Measuring and testing (e.g., diagnostics)
- 4 **356/406** (4 OR, 0 XR)  
Class 356 OPTICS: MEASURING AND TESTING
  - 356/402 .BY SHADE OR COLOR

- 356/406 ..Trichromatic examination
- 4 **362/250** (3 OR, 1 XR)  
 Class 362 ILLUMINATION  
     362/227 ..PLURAL LIGHT SOURCES  
     362/249 ..With support  
     362/250 ...Adjustable
- 3 **257/E25.028** (0 OR, 3 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
 SOLID-STATE DIODES)  
     257/E25.001 ..ASSEMBLIES CONSISTING OF PLURALITY OF INDIVIDUAL  
 SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES (EPO)  
     257/E25.002 ..All devices being of same type, e.g., assemblies of rectifier diodes  
 (EPO)  
     257/E25.022 ...Devices having separate containers (EPO)  
     257/E25.028 ....Incoherent light-emitting semiconductor devices having potential or  
 surface barrier (EPO)
- 3 **345/102** (3 OR, 0 XR)  
 Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
 DISPLAY SYSTEMS  
     345/30 ..PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G.,  
 NON-CRT)  
     345/55 ..Display elements arranged in matrix (e.g., rows and columns)  
     345/84 ...Light-controlling display elements  
     345/87 ....Liquid crystal display elements (LCD)  
     345/102 .....Backlight control
- 3 **345/88** (0 OR, 3 XR)  
 Class 345 COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
 DISPLAY SYSTEMS  
     345/30 ..PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G.,  
 NON-CRT)  
     345/55 ..Display elements arranged in matrix (e.g., rows and columns)  
     345/84 ...Light-controlling display elements  
     345/87 ....Liquid crystal display elements (LCD)  
     345/88 .....Color
- 3 **349/61** (2 OR, 1 XR)  
 Class 349 LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS  
     349/56 ..PARTICULAR STRUCTURE  
     349/61 ..Particular illumination
- 3 **358/509** (3 OR, 0 XR)  
 Class 358 FACSIMILE AND STATIC PRESENTATION PROCESSING  
     358/500 ..NATURAL COLOR FACSIMILE  
     358/505 ..Scanning  
     358/509 ...Illumination
- 3 **257/89** (2 OR, 1 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
 SOLID-STATE DIODES)  
     257/79 ..INCOHERENT LIGHT EMITTER STRUCTURE

- 257/88 ..Plural light emitting devices (e.g., matrix, 7-segment array)
- 257/89 ...Multi-color emission
- 3 **257/88** (1 OR, 2 XR)
  - Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)
  - 257/79 .INCOHERENT LIGHT EMITTER STRUCTURE
  - 257/88 ..Plural light emitting devices (e.g., matrix, 7-segment array)
- 3 **313/504** (0 OR, 3 XR)
  - Class 313 ELECTRIC LAMP AND DISCHARGE DEVICES
  - 313/483 .WITH LUMINESCENT SOLID OR LIQUID MATERIAL
  - 313/498 ..Solid-state type
  - 313/503 ...With particular phosphor or electrode material
  - 313/504 ....Organic phosphor
- 3 **257/102** (1 OR, 2 XR)
  - Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)
  - 257/79 .INCOHERENT LIGHT EMITTER STRUCTURE
  - 257/102 ..With particular dopant material (e.g., zinc as dopant in GaAs)
- 3 **257/E25.02** (0 OR, 3 XR)
  - Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)
  - 257/E25.001 .ASSEMBLIES CONSISTING OF PLURALITY OF INDIVIDUAL SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES (EPO)
  - 257/E25.002 ..All devices being of same type, e.g., assemblies of rectifier diodes (EPO)
  - 257/E25.003 ...Devices not having separate containers (EPO)
  - 257/E25.019 ....Incoherent light-emitting semiconductor devices having potential or surface barrier (EPO)
  - 257/E25.02 .....Devices being arranged next to each other (EPO)
- 3 **362/555** (1 OR, 2 XR)
  - Class 362 ILLUMINATION
  - 362/551 .LIGHT FIBER, ROD, OR PIPE
  - 362/555 ..Light Emitting Diode (LED)
- 3 **356/420** (2 OR, 1 XR)
  - Class 356 OPTICS: MEASURING AND TESTING
  - 356/402 .BY SHADE OR COLOR
  - 356/416 ..With color transmitting filter
  - 356/420 ...Included with colored light sources
- 3 **257/E23.044** (0 OR, 3 XR)
  - Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)
  - 257/E23.001 .PACKAGING, INTERCONNECTS, AND MARKINGS FOR SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES (EPO)
  - 257/E23.01 ..Arrangements for conducting electric current to or from solid-state body in operation, e.g., leads, terminal arrangements (EPO)
  - 257/E23.023 ...Consisting of soldered or bonded constructions (EPO)
  - 257/E23.031 ....Lead frames or other flat leads (EPO)

- 257/E23.043 .....Geometry of lead frame (EPO)  
 257/E23.044 .....For devices adapted for rectifying, amplifying, oscillating, or switching, capacitors, or resistors with at least one potential-jump barrier or surface barrier (EPO)
- 3 **257/E33.059** (0 OR, 3 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
 257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
 257/E33.055 ..Detail of nonsemiconductor component other than light-emitting semiconductor device (EPO)  
 257/E33.056 ...Packaging (EPO)  
 257/E33.059 ....Encapsulation (EPO)
- 3 **257/E33.066** (0 OR, 3 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
 257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
 257/E33.055 ..Detail of nonsemiconductor component other than light-emitting semiconductor device (EPO)  
 257/E33.066 ...Electrical contact or lead (e.g., lead frame) (EPO)
- 3 **257/E33.074** (0 OR, 3 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
 257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
 257/E33.055 ..Detail of nonsemiconductor component other than light-emitting semiconductor device (EPO)  
 257/E33.067 ...Means for light extraction or guiding (EPO)  
 257/E33.074 ....Scattering means (e.g., surface roughening) (EPO)
- 3 **257/E33.075** (0 OR, 3 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
 257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
 257/E33.055 ..Detail of nonsemiconductor component other than light-emitting semiconductor device (EPO)  
 257/E33.075 ...With means for cooling or heating (EPO)
- 3 **362/252** (3 OR, 0 XR)



- Class 362 ILLUMINATION  
 362/227 .PLURAL LIGHT SOURCES  
 362/249 ..With support  
 362/252 ...Particular arrangement (e.g., ornamental star)
- 3 **353/31** (2 OR, 1 XR)  
 Class 353 OPTICS: IMAGE PROJECTORS  
 353/30 .COMPOSITE PROJECTED IMAGE  
 353/31 ..Multicolor picture
- 3 **353/98** (2 OR, 1 XR)  
 Class 353 OPTICS: IMAGE PROJECTORS  
 353/98 .REFLECTOR
- 3 **315/291** (1 OR, 2 XR)  
 Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS  
 315/291 .CURRENT AND/OR VOLTAGE REGULATION
- 3 **315/294** (3 OR, 0 XR)  
 Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS  
 315/291 .CURRENT AND/OR VOLTAGE REGULATION  
 315/294 ..Plural load device regulation
- 3 **315/297** (0 OR, 3 XR)  
 Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS  
 315/291 .CURRENT AND/OR VOLTAGE REGULATION  
 315/294 ..Plural load device regulation  
 315/297 ...Automatic regulation
- 3 **257/80** (1 OR, 2 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
 SOLID-STATE DIODES)  
 257/79 .INCOHERENT LIGHT EMITTER STRUCTURE  
 257/80 ..In combination with or also constituting light responsive device
- 2 **257/461** (1 OR, 1 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
 SOLID-STATE DIODES)  
 257/414 .RESPONSIVE TO NON-ELECTRICAL SIGNAL (E.G., CHEMICAL,  
 STRESS, LIGHT, OR MAGNETIC FIELD SENSORS)  
 257/428 ..Electromagnetic or particle radiation  
 257/431 ...Light  
 257/461 ....Light responsive pn junction
- 2 **257/607** (0 OR, 2 XR)  
 Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
 SOLID-STATE DIODES)  
 257/607 .WITH SPECIFIED DOPANT (e.g., plural dopants of same conductivity in  
 same region)
- 2 **313/499** (0 OR, 2 XR)  
 Class 313 ELECTRIC LAMP AND DISCHARGE DEVICES  
 313/483 .WITH LUMINESCENT SOLID OR LIQUID MATERIAL  
 313/498 ..Solid-state type  
 313/499 ...Semiconductor depletion layer type

- 2    **362/319**            (0 OR, 2 XR)
  - Class 362            ILLUMINATION
  - 362/317        .LIGHT MODIFIER
  - 362/319        ..Adjustable or positionable
- 2    **345/46**            (0 OR, 2 XR)
  - Class 345            COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
DISPLAY SYSTEMS
  - 345/30        .PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G.,  
NON-CRT)
  - 345/33        ..Segmented display elements
  - 345/44        ...Solid light-emitting display elements
  - 345/46        ....Light-emitting diodes
- 2    **345/589**            (2 OR, 0 XR)
  - Class 345            COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
DISPLAY SYSTEMS
  - 345/418        .COMPUTER GRAPHICS PROCESSING
  - 345/581        ..Attributes (surface detail or characteristic, display attributes)
  - 345/589        ...Color or intensity
- 2    **358/505**            (0 OR, 2 XR)
  - Class 358            FACSIMILE AND STATIC PRESENTATION PROCESSING
  - 358/500        .NATURAL COLOR FACSIMILE
  - 358/505        ..Scanning
- 2    **257/90**            (1 OR, 1 XR)
  - Class 257            ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
SOLID-STATE DIODES)
  - 257/79        .INCOHERENT LIGHT EMITTER STRUCTURE
  - 257/88        ..Plural light emitting devices (e.g., matrix, 7-segment array)
  - 257/89        ...Multi-color emission
  - 257/90        ....With heterojunction
- 2    **257/98**            (0 OR, 2 XR)
  - Class 257            ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS,  
SOLID-STATE DIODES)
  - 257/79        .INCOHERENT LIGHT EMITTER STRUCTURE
  - 257/98        ..With reflector, opaque mask, or optical element (e.g., lens, optical fiber,  
index of refraction matching layer, luminescent material layer, filter)  
integral with device or device enclosure or package
- 2    **313/506**            (1 OR, 1 XR)
  - Class 313            ELECTRIC LAMP AND DISCHARGE DEVICES
  - 313/483        .WITH LUMINESCENT SOLID OR LIQUID MATERIAL
  - 313/498        ..Solid-state type
  - 313/506        ...Plural layers
- 2    **345/690**            (1 OR, 1 XR)
  - Class 345            COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL  
DISPLAY SYSTEMS
  - 345/204        .DISPLAY DRIVING CONTROL CIRCUITRY
  - 345/690        ..Intensity or color driving control (e.g., gray scale)

- 2 **257/103** (0 OR, 2 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
257/79 .INCOHERENT LIGHT EMITTER STRUCTURE  
257/103 ...With particular semiconductor material
- 2 **313/503** (1 OR, 1 XR)  
Class 313 ELECTRIC LAMP AND DISCHARGE DEVICES  
313/483 .WITH LUMINESCENT SOLID OR LIQUID MATERIAL  
313/498 ...Solid-state type  
313/503 ...With particular phosphor or electrode material
- 2 **257/E33.005** (0 OR, 2 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
257/E33.002 ...Device characterized by semiconductor body (EPO)  
257/E33.005 ...Shape or structure (e.g., shape of epitaxial layer) (EPO)
- 2 **356/425** (0 OR, 2 XR)  
Class 356 OPTICS: MEASURING AND TESTING  
356/402 .BY SHADE OR COLOR  
356/425 ...With color determination by light intensity comparison
- 2 **356/319** (0 OR, 2 XR)  
Class 356 OPTICS: MEASURING AND TESTING  
356/300 .BY DISPERSED LIGHT SPECTROSCOPY  
356/319 ...Utilizing a spectrophotometer (i.e., plural beam)
- 2 **356/402** (0 OR, 2 XR)  
Class 356 OPTICS: MEASURING AND TESTING  
356/402 .BY SHADE OR COLOR
- 2 **362/372** (0 OR, 2 XR)  
Class 362 ILLUMINATION  
362/362 .HOUSING  
362/372 ...With adjustable light source
- 2 **257/E33.012** (0 OR, 2 XR)  
Class 257 ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)  
257/E33.001 .LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF  
257/E33.002 ...Device characterized by semiconductor body (EPO)  
257/E33.005 ...Shape or structure (e.g., shape of epitaxial layer) (EPO)  
257/E33.012 ...Multiple active regions between two electrodes (e.g., stacks) (EPO)
- 2 **358/518** (1 OR, 1 XR)  
Class 358 FACSIMILE AND STATIC PRESENTATION PROCESSING

- 358/500 .NATURAL COLOR FACSIMILE
- 358/518 ..Color correction
- 2 **438/27** (2 OR, 0 XR)
  - Class 438 SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
  - 438/22 .MAKING DEVICE OR CIRCUIT EMISSIVE OF NONELECTRICAL SIGNAL
  - 438/26 ..Packaging (e.g., with mounting, encapsulating, etc.) or treatment of packaged semiconductor
  - 438/27 ...Having additional optical element (e.g., optical fiber, etc.)
- 2 **438/28** (0 OR, 2 XR)
  - Class 438 SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
  - 438/22 .MAKING DEVICE OR CIRCUIT EMISSIVE OF NONELECTRICAL SIGNAL
  - 438/26 ..Packaging (e.g., with mounting, encapsulating, etc.) or treatment of packaged semiconductor
  - 438/28 ...Plural emissive devices
- 2 **315/169.3** (0 OR, 2 XR)
  - Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS
  - 315/160 .PLURAL POWER SUPPLIES
  - 315/167 ..Plural cathode and/or anode load device
  - 315/169.1 ...Diverse-type energizing or bias supplies to different electrodes
  - 315/169.3 ....Electroluminescent device
- 2 **315/307** (1 OR, 1 XR)
  - Class 315 ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS
  - 315/291 .CURRENT AND/OR VOLTAGE REGULATION
  - 315/307 ..Automatic regulation
- 2 **455/556.1** (2 OR, 0 XR)
  - Class 455 TELECOMMUNICATIONS
  - 455/73 .TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCEIVER)
  - 455/550.1 ..Radiotelephone equipment detail
  - 455/556.1 ...Integrated with other device
- 2 **348/E5.029** (0 OR, 2 XR)
  - Class 348 TELEVISION
  - 348/E5.001 .DETAILS OF TELEVISION SYSTEMS (EPO)
  - 348/E5.022 ..Studio circuitry; Studio devices; Studio equipment (EPO)
  - 348/E5.024 ...Television cameras (EPO)
  - 348/E5.029 ....Provided with illuminating means (EPO)
- 2 **348/E9.01** (0 OR, 2 XR)
  - Class 348 TELEVISION
  - 348/E9.001 .DETAILS OF COLOR TELEVISION SYSTEMS (EPO)
  - 348/E9.002 ..Picture signal generators (EPO)
  - 348/E9.01 ...Using solid-state devices (EPO)
- 2 **362/251** (0 OR, 2 XR)
  - Class 362 ILLUMINATION
  - 362/227 .PLURAL LIGHT SOURCES

362/249 ..With support  
362/251 ...With switch

2 **362/296** (1 OR, 1 XR)

Class 362 ILLUMINATION

362/257 .LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/296 ..Including reflector

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according 45  
accordingly 1  
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additionally 4  
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